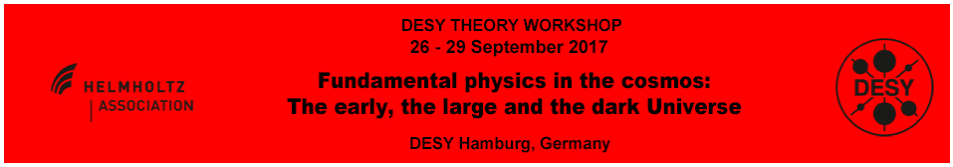

Contribution ID: **8** Type: **not specified**

Constraining warm inflation from the Planck data

Thursday 28 September 2017 16:22 (17 minutes)

The dissipative mechanism in warm inflation scenario can provide the inflating universe with a warm exit to the radiation dominated era rather than a supercooled exit to a reheating phase. In this work, we constrain the model parameters for warm inflation from Planck 2015 data. In addition, the reheating era can be optimized by varying the number of e-folds of inflation. Best fit values for the model parameters are estimated with and without the contribution to fluctuation from thermal excitations.

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Session Classification: Parallel Sessions: Cosmology & Astroparticle Physics - Inflation + Gws

Track Classification: Cosmology & Astroparticle Physics